

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON 25, D.C.



OCT 10 1961

SECRET

REPLY TO
ATTN OF: AFCIN-1B2

SUBJECT: (Uncld) Modification of ITEK Mark I Viewers

25X1A

TO: CIA [REDACTED]

Reference letter AFCIN-1B2, subject as above, dated 4 August 1961. SAC has forwarded the modifications which they want made on the four (4) ITEK Mark I viewers now on hand in the 544th Reconnaissance Technical Group (see attachment #1). Request you forward these required modifications to ITEK, arrange for a time and cost estimate for the job and notify this office. Request consideration be given to doing the work on these viewers at SAC. Direct coordination between contractor and Hq SAC (DIMG) authorized. This office will assist in arranging visits, etc., if required.

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Lt Colonel, JSAF
Directorate of Collection
ACS/ Intelligence

1 Atch
Required Mod to ITEK viewers
(4 cys)

25X1

DOCUMENT NO. _____
NO CHANGE IN CLASS. ☒
☐ DECLASSIFIED
CLASS. CHANGED TO: TS S O 2011
NEXT REVIEW DATE: _____
AUTH: HR 70-2
DATE: 9 JUL 1981 REVIEWER: [REDACTED]

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USAF review(s) completed.

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REQUIRED MODIFICATIONS TO ITEK MARK I VIEWERS

1. Removable panels on each side and the front of the viewer to provide easy access to the bottom compartment.
2. Provide long enough cables on the various units, power supplies, relay racks, etc., so that individual units may be moved around and removed from the cabinet while still inter-connected.
3. Provide 100 CFM blowers mounted on the front of the viewer to blow into the lower compartment.
4. Enlarge the rectangular aperture directly in front of the light source (metal bracket holding the vacuum platen) so that the entire screen is covered with light with no film in the viewer.
5. An automatic zero reset for X and Y scale readings, making rewind unnecessary.
6. X scale markings along the top of the screen frame to facilitate the identification of X coordinates.
7. A leatherette or plastic, bellows-type extension of the canopy which would enable the operator to screen off undesired light reflections.
8. An adjustable slit-type fluorescent light to be mounted atop the front of the metal canopy. This lamp should be controlled by rheostat so that it can be dimmed as the operator desires.
9. A magnifying lens mounted either behind or in front of the viewing screen which would allow at least 20 power magnification of small areas of the viewing screen.
10. A speedometer or radio dial-type device on the instrument panel which would provide a graphic portrayal of that portion of each exposure currently being portrayed on the projection screen.

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TO: 113
425
Ref 66

14 December 1961

To: Audit Liaison Officer, Washington D.C.

Subj: Steh Laboratories, Lexington, Mass. Proposal No. 3250-01
of 4 Nov. 1961

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Ref: (a) Telegram of 12 Dec 1961 (from to him via [redacted])

1. As requested by reference (a), review has been made by the auditor of the costs submitted by the contractor for work to be performed under the subject proposal.

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2. Labor rates used by the contractor were actual, hourly labor rates as of the month of November, 1961. [redacted]

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[redacted] based on direct labor dollars and total manufacturing costs respectively, are considered reasonable by the auditor. Material costs to the extent reviewed appear to have been computed by the contractor in a manner consistent with usual procedures.

3. Based upon the acceptability of the labor hours as listed by the contractor, the auditor recommends for acceptance the costs proposed.

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4. [redacted] applied by the contractor to total costs proposed is referred for the consideration of the Contracting Officer.

Ken

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DPD 7623-61
COPY 1 OF 2

ITEK LABORATORIES

PROPOSAL

MODIFICATION OF MARK I VIEWERS

(Proposal No. 3353.01)

November 30, 1961

I N D E X

SECTION I

Technical Proposal - Modifications to Mark I Viewers

SECTION II

Total Cost Summary

SECTION III

Labor Rate Schedule

SECTION IV

Travel Schedule

MODIFICATIONS TO MARK I VIEWERS
Proposal 3358.01

In response to the "Required Modification to Itek Laboratories Mark I Viewers", Itek submits the following methods of modification and the associated price.

Itek proposes that all of the specified modifications be accomplished at the user's facility with user's maintenance personnel. The proposed modification has been designed to make this possible, requiring only a limited amount of installation effort. Accompanying the purchased parts (furnished by Itek) will be complete mechanical and electrical drawings and schematics to facilitate these modifications. In this manner, each machine will be on "down time" for a minimum period, without the added time and cost of returning the viewers to the manufacturer.

The proposed solution to the modification are as follows:

1. Viewer Cover

Cut both sides and front of viewer (per drawing as supplied) and provide mounting holes for Dzus fasteners. (26 total fasteners) Position panels as furnished by Itek.

2. Electrical Cable

Itek will furnish two sets of six-foot-long jumper cables to permit the removal of the regulated DC power supply, the servo-null chassis, and the relay chassis for bench testing and maintenance.

3. Blower

Blower will be furnished by Itek with isolation mounts, mounting bracket, and hardware. The rear panel must be cut to receive a dust filter, furnished by Itek. A wiring schematic will be provided along with necessary wire and terminal boards to enable electrical connection.

4. Aperture

Aperture enlargement has been performed by the customer.

5. Coordinate Reset

An electrical brake and bracket will be provided to prevent the engagement of the clutch due to residual magnetism and friction contact.

6. X Coordinate Scale

Itek will furnish a special transparent K and E scale to be affixed to the rear of the screen.

7. Hood

Itek will provide a perambulator hood with the necessary mounting brackets to be affixed to the base of the present hood.

8. Data Lights

Itek will furnish eight individual control panel lights to be affixed to the control panel. A rheostat will be provided to vary the intensity of the lights. The mounting and wiring of these lights will be accomplished by the user per Itek drawings.

9. Local Magnification

Itek will provide an X-Y staging with magnifying glass and holder to be affixed to the front of the screen by the user per Itek drawing. Approximately 8-12 mounting holes will be required.

10. X and Y Coordinate Indicator

This modification requires complete redesign and retrofit of the existing viewers. Because of the scope of this modification program, and by conversation with the user, this modification is deleted in its entirety.

Included in the pricing will be a field trip by Itek personnel to direct the modification of the first viewer.

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